

JANIS — A Lake Shore Company

Janis Cryogen-Free Vertical Field 3 T Superconducting Magnet Probe Station



Model CCR-SCON for Hall measurements

Magnetic field:

± 3.0 T (from ~ 4 K to 350 K)
 ± 2.5 T (from ~ 350 K to 400 K)
 ± 2 T (from 400 K to 420 K)

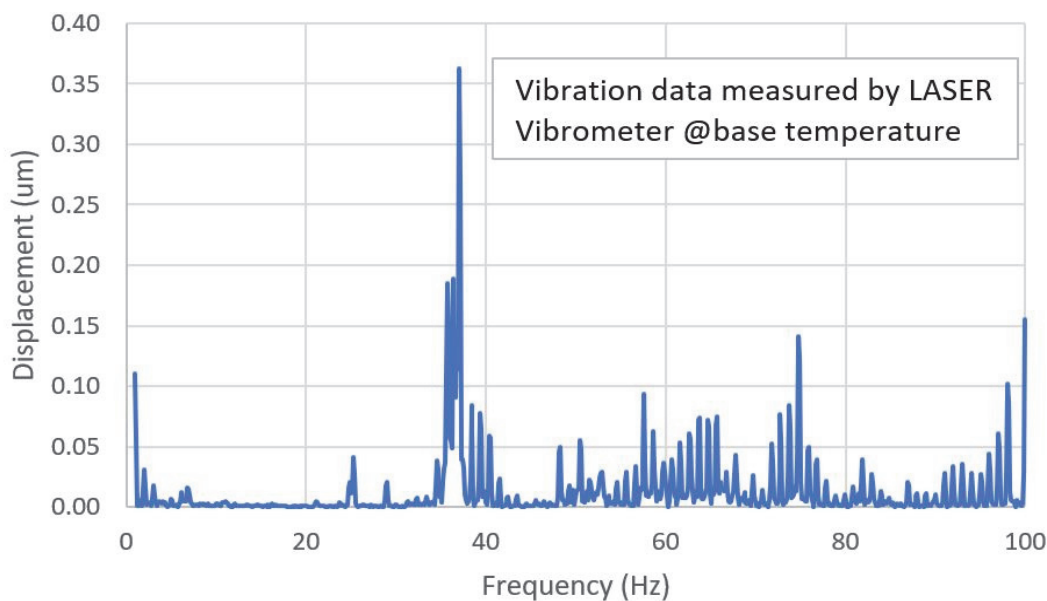
Temperature range:

~ 4 K to 420 K (optional 500 K)

Temperature stability: ± 50 mK

Maximum: 6 probes

Sample size: 2 in diameter standard
(electrically grounded or isolated or triaxially guarded)



Vibration level:
Less than $1 \mu\text{m}$

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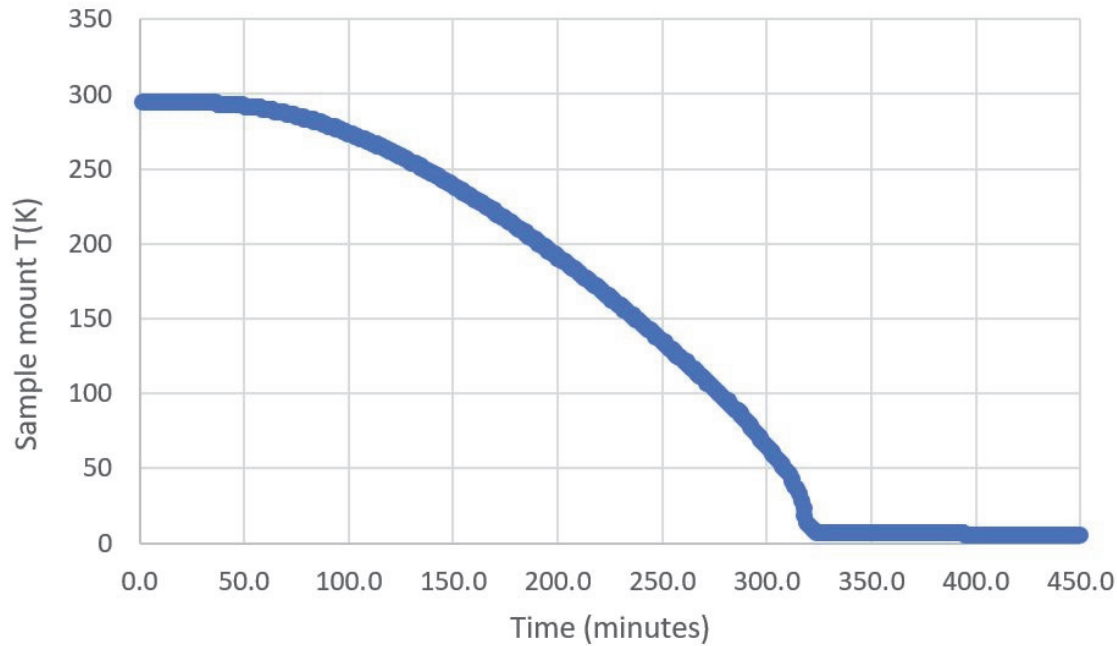
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Probe tip holder temperature at base temperature: <45 K

Cooling time: <8 h



Vacuum level: $\sim 10^{-6}$ Torr (with vacuum gauge mounted on vacuum chamber; $\sim 10^{-7}$ Torr optional)

Probe arms: DC/low frequency (up to 20 MHz); microwave (40, 50, 67 GHz); fiber optic (multimode, single mode)

Optional monoscopes: 5 or 4.2 or 3.4 μm resolution CCD or USB camera; mounted on XYZ travel stages

Probe arm leak current: Typically 1 to 2 fA at 1 V for triaxial probe arms; ~ 0.05 pA at 1 V for coaxial probes